

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|-----------------|---------------------------------------------|------------------|---------|------------------|
| L1 | 0 | "10481811" | US-PGPUB; USPAT | OR | OFF | 2008/02/04 08:06 |
| L2 | 1 | "10/481811" | US-PGPUB; USPAT | OR | OFF | 2008/02/04 08:06 |
| L3 | 2 | "10/489811" | US-PGPUB; USPAT | OR | OFF | 2008/02/04 08:07 |
| L4 | 1 | ("6903085").PN. | USPAT; USOCR | OR | OFF | 2008/02/04 08:10 |
| L5 | 1 | ("7307090").PN. | USPAT; USOCR | OR | OFF | 2008/02/04 08:12 |
| L6 | 1 | ("7265222").PN. | USPAT; USOCR | OR | OFF | 2008/02/04 08:12 |
| L7 | 1 | ("7238691").PN. | USPAT; USOCR | OR | OFF | 2008/02/04 08:13 |
| L8 | 4 | "2001077101" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2008/02/04 08:27 |
| L9 | 0 | "20010077101" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2008/02/04 08:27 |
| L10 | 4 | "2001077101" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2008/02/04 08:27 |
| L11 | 3 | "01077101" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2008/02/04 08:28 |
| L12 | 0 | "010077101" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2008/02/04 08:28 |
| L13 | 3044026 | wo "2001077101" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2008/02/04 08:28 |
| L14 | 1 | "wo 2001077101" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2008/02/04 08:28 |
| L15 | 1 | ("6903115").PN. | USPAT; USOCR | OR | OFF | 2008/02/04 08:45 |
| L16 | 1 | ("7179922").PN. | USPAT; USOCR | OR | OFF | 2008/02/04 08:46 |

EAST Search History

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|-----|-----|--------------------------------------------------|--------------------|----|-----|------------------|
| L17 | 778 | 546/184.ccls. | US-PGPUB; USPAT | OR | OFF | 2008/02/04 09:23 |
| L18 | 45 | 546/184.ccls. and 546/186.ccls. | US-PGPUB; USPAT | OR | OFF | 2008/02/04 09:23 |
| L19 | 0 | 546/184.ccls. and 546/186.ccls. and piperdine | US-PGPUB; USPAT | OR | OFF | 2008/02/04 09:23 |
| L20 | 0 | 546/184.ccls. and 546/186.ccls. and piperdin? | US-PGPUB; USPAT | OR | OFF | 2008/02/04 09:23 |
| L21 | 2 | 546/184.ccls. and 546/186.ccls. and piper? | US-PGPUB; USPAT | OR | OFF | 2008/02/04 09:23 |

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| NEWS | 2 | AUG 06 | CAS REGISTRY enhanced with new experimental property tags |
| NEWS | 3 | AUG 06 | FSTA enhanced with new thesaurus edition |
| NEWS | 4 | AUG 13 | CA/CAPplus enhanced with additional kind codes for granted patents |
| NEWS | 5 | AUG 20 | CA/CAPplus enhanced with CAS indexing in pre-1907 records |
| NEWS | 6 | AUG 27 | Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB |
| NEWS | 7 | AUG 27 | USPATOLD now available on STN |
| NEWS | 8 | AUG 28 | CAS REGISTRY enhanced with additional experimental spectral property data |
| NEWS | 9 | SEP 07 | STN AnaVist, Version 2.0, now available with Derwent World Patents Index |
| NEWS | 10 | SEP 13 | FORIS renamed to SOFIS |
| NEWS | 11 | SEP 13 | INPADOCDB enhanced with monthly SDI frequency |
| NEWS | 12 | SEP 17 | CA/CAPplus enhanced with printed CA page images from 1967-1998 |
| NEWS | 13 | SEP 17 | Caplus coverage extended to include traditional medicine patents |
| NEWS | 14 | SEP 24 | EMBASE, EMBAL, and LEMBASE reloaded with enhancements |
| NEWS | 15 | OCT 02 | CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt |
| NEWS | 16 | OCT 19 | BEILSTEIN updated with new compounds |
| NEWS | 17 | NOV 15 | Derwent Indian patent publication number format enhanced |
| NEWS | 18 | NOV 19 | WPIX enhanced with XML display format |
| NEWS | 19 | NOV 30 | ICSD reloaded with enhancements |
| NEWS | 20 | DEC 04 | LINPADOCDB now available on STN |
| NEWS | 21 | DEC 14 | BEILSTEIN pricing structure to change |
| NEWS | 22 | DEC 17 | USPATOLD added to additional database clusters |
| NEWS | 23 | DEC 17 | IMSDRUGCONF removed from database clusters and STN |
| NEWS | 24 | DEC 17 | DGENE now includes more than 10 million sequences |
| NEWS | 25 | DEC 17 | TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment |
| NEWS | 26 | DEC 17 | MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary |
| NEWS | 27 | DEC 17 | CA/CAPplus enhanced with new custom IPC display formats |
| NEWS | 28 | DEC 17 | STN Viewer enhanced with full-text patent content from USPATOLD |
| NEWS | 29 | JAN 02 | STN pricing information for 2008 now available |
| NEWS | 30 | JAN 16 | CAS patent coverage enhanced to include exemplified prophetic substances |
| NEWS | 31 | JAN 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats |
| NEWS | 32 | JAN 28 | MARPAT searching enhanced |
| NEWS | 33 | JAN 28 | USGENE now provides USPTO sequence data within 3 days of publication |
| NEWS | 34 | JAN 28 | TOXCENTER enhanced with reloaded MEDLINE segment |
| NEWS | 35 | JAN 28 | MEDLINE and LMEDLINE reloaded with enhancements |

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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COST IN U.S. DOLLARS

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ENTRY

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SESSION

FULL ESTIMATED COST

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0.21

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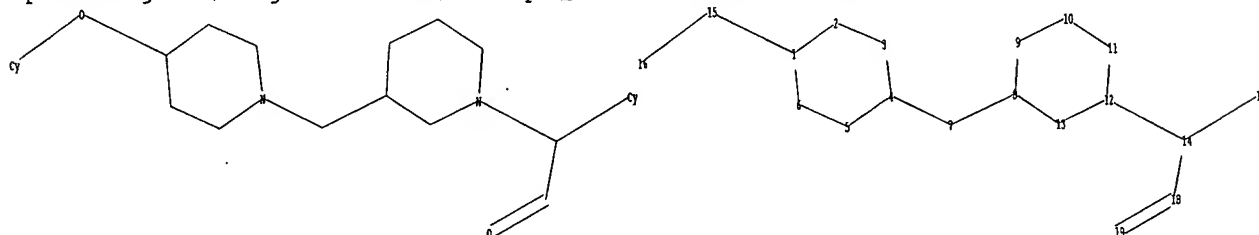
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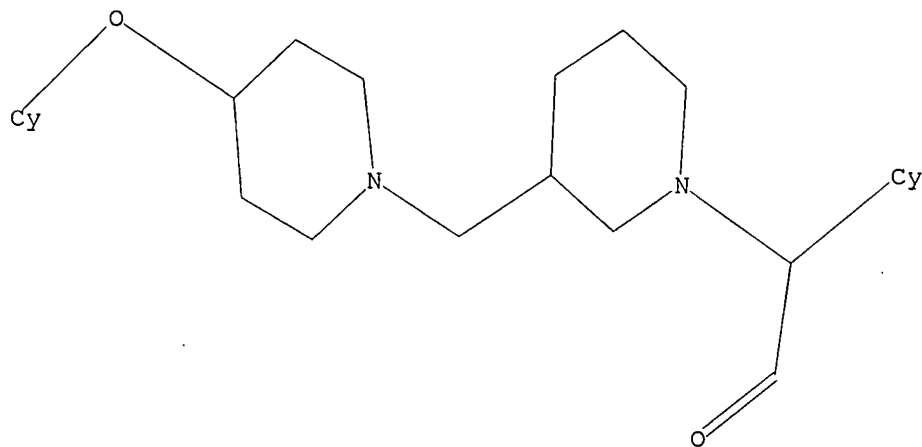


chain nodes :
 7 14 15 16 17 18 19
 ring nodes :
 1 2 3 4 5 6 8 9 10 11 12 13
 chain bonds :
 1-15 4-7 7-8 12-14 14-17 14-18 15-16 18-19
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13
 exact/norm bonds :
 1-2 1-6 1-15 2-3 3-4 4-5 4-7 5-6 8-9 8-13 9-10 10-11 11-12 12-13
 12-14 14-17 15-16 18-19
 exact bonds :
 7-8 14-18

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
 11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:Atom 17:Atom 18:CLASS 19:CLASS

L1 STRUCTURE UPLOADED

=> d
 L1 HAS NO ANSWERS
 L1 STR



Structure attributes must be viewed using STN Express query preparation.

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 SAMPLE SEARCH INITIATED 07:33:31 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 61 TO ITERATE

100.0% PROCESSED 61 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 752 TO 1688
 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 07:33:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1264 TO ITERATE

100.0% PROCESSED 1264 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

L3 3 SEA SSS FUL L1

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
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L4 2 L3

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L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STM

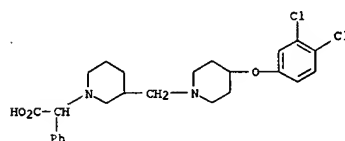
ACCESSION NUMBER: 2005:1015895 CAPLUS
 DOCUMENT NUMBER: 143:415586
 TITLE: G-Protein-Coupled Receptor Affinity Prediction Based on the Use of a Profiling Dataset: QSAR Design, Synthesis, and Experimental Validation
 AUTHOR(S): Rolland, Catherine; Gozalbes, Rafael; Nicolaie, Eric; Paugam, Marie-France; Coussy, Laurent; Barbosa, Frederique; Horvath, Dragos; Revah, Frederic
 CORPORATE SOURCE: Cerep, Rueil-Malmaison, 92500, Fr.
 SOURCE: Journal of Medicinal Chemistry (2005), 48 (21), 6563-6574
 CODEN: JMCHAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB A QSAR model accounting for "average" G-protein-coupled receptor (GPCR) binding was built from a large set of exptl. standardized binding data (1939 compds. systematically tested over 40 different GPCRs) and applied to the design of a library of "GPCR-predicted" compds. Three hundred and sixty of these compds. were randomly selected and tested in 21 GPCR binding assays. Positives were defined by their ability to inhibit by more than 70% the binding of reference compds. at 10 μ M. A 5.5-fold enrichment in positives was observed when comparing the "GPCR-predicted" compds. with 600 randomly selected compds. predicted as "non-GPCR" from a general collection. The model was efficient in predicting strongest binders, since enrichment was greater for higher cutoffs. Significant enrichment was also observed for peptidic GPCRs and receptors not included

to develop the QSAR model, suggesting the usefulness of the model to design ligands binding with newly identified GPCRs, including orphan ones.

IT 868056-91-1
 RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (QSAR design, synthesis, and exptl. validation of G-protein-coupled receptor affinity prediction based on use of a profiling dataset)

RN 868056-91-1 CAPLUS
 CN 1-Piperidineacetic acid, 3-[[4-(3,4-dichlorophenoxy)-1-piperidinyl]methyl]- α -phenyl- (CA INDEX NAME)



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

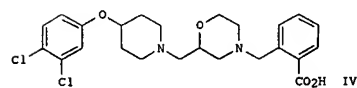
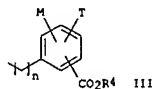
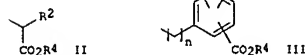
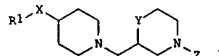
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STM

ACCESSION NUMBER: 2003:757677 CAPLUS
 DOCUMENT NUMBER: 139:276907
 TITLE: Preparation of 1-(piperidin-3-ylmethyl)piperidines and 2-(piperidin-1-ylmethyl)morpholines as modulators of chemokine receptor activity
 INVENTOR(S): Luckhurst, Christopher; Perry, Matthew; Sanganee, Hitesh; Springthorpe, Brian
 PATENT ASSIGNEE(S): Astrazeneca AB, Sued.
 SOURCE: PCT Int. Appl., 44 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|------------|
| WO 2003078395 | A1 | 20030925 | WO 2003-SE443 | 20030317 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LV, MC, NL, PT, RO, SE, SI, SK, TR, BF, BU, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SM, TD, TG | | | |
| AU 2003212770 | A1 | 20030929 | AU 2003-212770 | 20030317 |
| EP 1487793 | A1 | 20041222 | EP 2003-708799 | 20030317 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | |
| JP 2005526087 | T | 20050902 | JP 2003-576401 | 20030317 |
| US 2005176708 | A1 | 20050811 | US 2004-508331 | 20040917 |
| PRIORITY APPLN. INFO.: | | | SE 2002-844 | A 20020319 |
| | | | WO 2003-SE443 | W 20030317 |

OTHER SOURCE(S): MARPAT 139:276907
 GI

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)



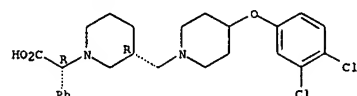
AB The title compds. [I; Z = II or III; n = 0-1; X = CH2, CO, O, S, SO, SO2, NR3; Y = O, CH2; R1 = H, alkyl, aryl, heteroaryl; R2 = (un)substituted cycloalkyl, cycloalkenyl, aryl or heterocyclyl; R3 = H, alkyl, Ph, etc.; R4 = H, alkyl, CH2Ph, H, T = H, halo, CN, etc.;], useful in the treatment of a chemokine (such as CCR3) or H1 mediated disease state, were prepared thus, reacting 2-[[4-(3,4-dichlorophenoxy)-1-piperidinyl]methyl]-2(S)-morpholine with 2-carboxybenzaldehyde in the presence of NaBH(OAc)3 and AcOH in THF afforded (2R)-IV which showed pKi of 7.5 in histamine H1 receptor binding assay. The compds. I were also found to be antagonists of the eotaxin mediated human eosinophil chemotaxis. Pharmaceutical composition comprising the compound I was claimed.

IT 606139-39-3P 606139-40-6P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 1-(piperidin-3-ylmethyl)piperidines and 2-(piperidin-1-ylmethyl)morpholines as modulators of chemokine receptor activity)

RN 606139-39-3 CAPLUS
 CN 1-Piperidineacetic acid, 3-[[4-(3,4-dichlorophenoxy)-1-piperidinyl]methyl]- α -phenyl-, (α R,3R)-rel- (CA INDEX NAME)

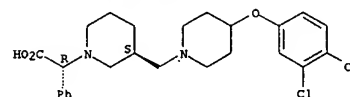
Relative stereochemistry.



RN 606139-40-6 CAPLUS
 CN 1-Piperidineacetic acid, 3-[[4-(3,4-dichlorophenoxy)-1-piperidinyl]methyl]- α -phenyl-, (α R,3R)-rel- (CA INDEX NAME)

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)

Relative stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT